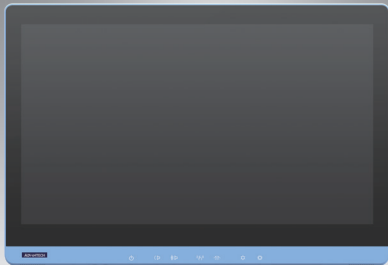


POC-621

21" Point-of-Care Terminal with 11th Generation Intel® Processor



DeviceOn

Features

- 11th generation Intel® Core™ i5/i7 processor
- 21.5" full HD display with multi-touch P-CAP control
- Multiple I/O, including USB 3.2 Gen 2 (Type A), USB 3.2 Gen 2 (Type C) with display function, and HDMI
- PCIe x4, mini PCIe, M.2 expansion slots for integrating add-on modules
- Fanless design with IP54-rated protection for superior hygiene and infection control
- Optional Wi-Fi, Bluetooth, RFID, smart card reader, Li-ion battery pack, and auto-focus 5 megapixel camera
- Optional hot-swapping battery module with up to 180Wh capacity for mobile applications
- Equipped with DeviceOn software for remote device management



Introduction

POC-621 is equipped with an integrated NVME SSD that facilitates real-time data processing and storage. Compliant with IEC 60601-1 medical safety standards for electrical devices, POC-6 terminals are built for reliable operation in a wide range of healthcare environments.

Moreover, POC-621 is equipped with Advantech's DeviceOn software, which is a next-generation unified device management solution based on the WISE-DeviceOn platform. With support for batch operations and multi-device control, DeviceOn enables easy device configuration and deployment for convenient remote device management.

Specifications

System	Processor*	Intel® Core™ i7-1185G7E (12M cache, up to 4.40 GHz) Intel® Core™ i5-1145G7E (8M cache, up to 4.10 GHz)
	Memory (optional)	DDR4 (supports up to 64GB DDR4 SODIMM)
	Operating System (optional)	Windows 10 / Windows 11 IoT Ent (64 bits only), Linux (supported upon request)
Storage	Primary Storage (optional)	NVME SSD (M.2 2280)
	Secondary Storage (optional)	2.5" SATA SSD available (choose either 2.5" SSD or backup battery)
Display	Size	21.5 inch
	Max. Resolution	1920 x 1080
Touch	Type	10-point multi touch P-CAP (clear glass); optional AG/AR support upon request
I/O	USB 3.2 Gen 2 (Type A)	4
	USB 3.2 Gen 2 (Type C)	1 (with display function)
	USB 2.0 Type A	2
	HDMI	1
	LAN isolation, 1.5KV	2
	Mic-In/ Headphone-Out	1/1
	COM (RS232) 1.5KV	2
Expansion Slots	PCIe x4**	1 (card length: 167.65 mm/6.6 in Max)
	M.2 2230	1 (for Wi-Fi/Bluetooth module)
	Mini PCIe	1 (full size)
Other Functions	Speaker	2 x 2W
	LED Book Light	2
	Camera	1 x 5 megapixel (optional)
	TPM 2.0	2.0 (default via fTPM –Firmware TPM)
Power Input	DC/AC	DC model: 19V, max. 150W/AC model: 100 – 240V, max. 250W (choose either DC or AC model)
IP Rating	Front Panel	IP65
	System	IP54
Authentication Solution (Choose 1)	RFID Reader	Optional (choose either RFID or smart card reader)
	Smart Card Reader	Optional (choose either RFID or smart card reader)
Battery Solutions (Choose 1)	Backup Battery**	Optional (choose either 1 backup battery or PCIe4)
	Hot-Swapping Battery Module	Optional with 2 x batteries (choose either backup battery or battery module)
Certification	EMC & Safety	Medical CE, FCC (IEC 60601-1-2, 4th edition) EN 60601-1 Compliance
Physical Characteristics	Dimensions (W x H x D)	524 x 357 x 62 mm/20.63 x 14.06 x 2.44 in
	VESA Mount	100 x 100; 75 x 75
	Weight	6.29 kg/13.86 lb
Environment	Operating Temperature	0 – 35 °C/32 – 95 °F
	Storage Temperature	0 – 50 °C/32 – 122 °F
Warranty	System	3 years
	Battery Pack	1 year or capacity 70% and 300 cycles (whichever happens first)

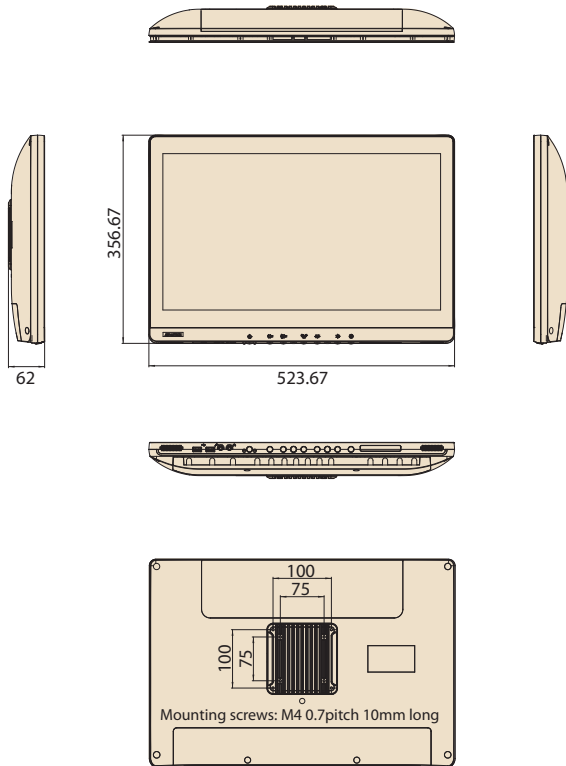
*Intel® Celeron® processor available upon request.

**Either PCIe x4 or backup battery can be chosen.

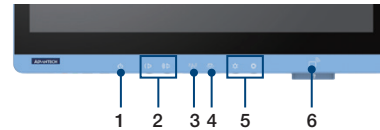
***If backup battery is chosen, neither a 2.5" SSD nor battery module can be installed.

Dimensions

Unit: mm

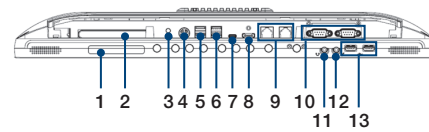


Front Function Keys



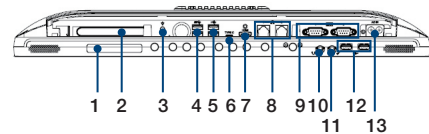
- 1. Power button
- 2. Volume down/up
- 3. Touchscreen status control
- 4. Read light control
- 5. Brightness down/up
- 6. RFID or smart card reader slot

I/O Ports (DC Model)



- 1. RFID or smart card reader slot
- 2. PCIe x4 slot
- 3. Equipotential terminal pin
- 4. DC-in
- 5. 2 x USB 3.2 (Type A)
- 6. 2 x USB 3.2 (Type A)
- 7. 1 x USB 3.2 (Type C)
- 8. HDMI
- 9. 2 x Gigabit Ethernet
- 10. 2 x COM (RS-232)
- 11. Headphone-out
- 12. Mic-in
- 13. 2 x USB 2.0

I/O Ports (AC Model)



- 1. RFID or smart card reader slot
- 2. PCIe x4 slot
- 3. Equipotential terminal pin
- 4. 2 x USB 3.2 (Type A)
- 5. 2 x USB 3.2 (Type A)
- 6. 1 x USB Type-C
- 7. HDMI
- 8. 2 x Gigabit Ethernet
- 9. 2 x COM (RS-232)
- 10. Headphone-out
- 11. Mic-in
- 12. 2 x USB 2.0
- 13. AC-in

Configuration To Order Service (CTOS)

Ordering Information (Barebone Units)

Part Number (DC Model)	Product Number (AC Model)	Descriptions	CPU	RAM	Touch	SSD	RFID
POC-621-12A110-CA	POC-621-02A110-CA	Intel® Core i7, clear glass with P-CAP touch, W/O RAM and SSD	i7	NA	P-CAP	NA	
POC-621-12B110-CA	POC-621-02B110-CA	Intel® Core i5, clear glass with P-CAP touch, W/O RAM and SSD	i5	NA	P-CAP	NA	
POC-621-12A110R-CA	POC-621-02A110R-CA	Intel® Core i7, clear glass with P-CAP touch, W/O RAM and SSD, with RFID	i7	NA	P-CAP	NA	Yes
POC-621-12B110R-CA	POC-621-02B110R-CA	Intel® Core i5, clear glass with P-CAP touch, W/O RAM and SSD, with RFID	i5	NA	P-CAP	NA	Yes

Component Offerings

Memory

Part number	Description
SQR-SD4S4G3K2HNPG	260pin SODIMM DDR4 3200 4GB 1.2v 512x16 (0-85°C)
SQR-SD4S8G3K2HNBG	260pin SODIMM DDR4 3200 8GB 1.2v 1Gx8 (0-85°C)
SQR-SD4S16G3K2HNBG	260pin SODIMM DDR4 3200 16GB 1.2v 1Gx8 (0-85°C)
SQR-SD4S32G3K2HNAG	260pin SODIMM DDR4 3200 32GB 1.2v 2Gx8 (0-85°C)

Part number	Description
SQR-SD4I4G3K2HNPG	260pin SODIMM DDR4 3200 4GB 1.2v 512x16 (-40-85°C)
SQR-SD4I8G3K2HNBG	260pin SODIMM DDR4 3200 8GB 1.2v 1Gx8 (-40-85°C)
SQR-SD4I16G3K2HNBG	260pin SODIMM DDR4 3200 16GB 1.2v 1Gx8 (-40-85°C)
SQR-SD4I32G3K2HNAG	260pin SODIMM DDR4 3200 32GB 1.2v 2Gx8 (-40-85°C)

M.2 2280 NVME SSD

Part Number	Description
SQF-C8BV2-128GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 128G 3D TLC BiCS5
SQF-C8BV2-256GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 256G 3D TLC BiCS5
SQF-C8BV2-512GDEDM	SQF PCIe/NVMe M.2 2280 OPAL 720-D 512G 3D TLC BiCS5

2.5" SATA SSD and Mounting Kit

Part Number	Product Description
AMF-S25V2-256GDSBC	AMF 2.5" 256GB 3D TLC (BiCS5)
AMF-S25V4-512GDSBC	AMF 2.5" 512GB 3D TLC (BiCS5)
AMF-S25V4-1TDSBC	AMF 2.5" 1TB 3D TLC (BiCS5)

Choose either 2.5" SSD or backup battery. Those two parts cannot both installed.

Part Number	Part Description	Qty
1700024977-21	SATA Cable	1
1700022355-21	SATA Power Cable	1
1960097062N001	SSD Bracket	1
19330304A0	Screw	2
1930001361	Screw	2
1940003234	Gasket	1

Wi-Fi + BT Module

Part Number	Description
EWM-W165M201E	Intel® Dual Band Wireless-AX210 (Wi-Fi 6)
EWM-W165M203E	

Power Cord

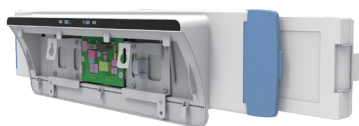
Region	Part Number (DC Model)	Part Number (AC Model)
USA (Thailand, Philippines)	1702002600	1700001524
Europe (Indonesia)	1702002605	170203183C
UK (Singapore, Malaysia)	1700032693-11	170203180A
Japan (PSE)	1700000237	1700008921

OS image

OS version	Part number
Win11 LTSC 2024	20708WLH1S0005 (for i7/i9 processor)
	20708WLV1S0011 (for i3/i5 processor)

Accessories

Hot-Swapping Battery Module



LED Indicator



Battery module contains 2 x battery packs



Backup Battery (Internal)



Charging Station



Battery Packs



Battery Module

Part Number	Description
POC-BAT-101-6A*	Backup battery (internal)
POC-BAT-201-62*	Hot-swapping battery module for POC-621/624
POC-IPSM90B2	Battery pack (2 x pcs) of POC power system
POC-IPSM90CS3	Charging station (3 x slots) of POC power system

*Choose either a backup battery or hot-swapping battery module.

Battery Pack Specification

Battery Pack Type	Lithium-ion battery
Battery Pack Capacity	90Wh
Total Capacity	180Wh (2 x batteries, 90W per battery)
Battery Runtime	6 ~ 8 hours
Battery Lifespan	300 cycle time ≥ 70%
Capacity Indicator	LED indicator with button
Weight	540g/1.2lb

*Backup battery is 1 piece.

*Hot swap batteries are 2 pieces.

Recommended Mounting Solution

Model Name	ARES-2423R
Part Number	ARES-2423R-A741L00

Photo



Max. Support Weight	6 - 12kg
Max. Support Panel Size	≤ 27"
VESA Information	75 x 75 mm 100x100 mm

For more information, please click this link: <https://bit.ly/3T7dLMR>

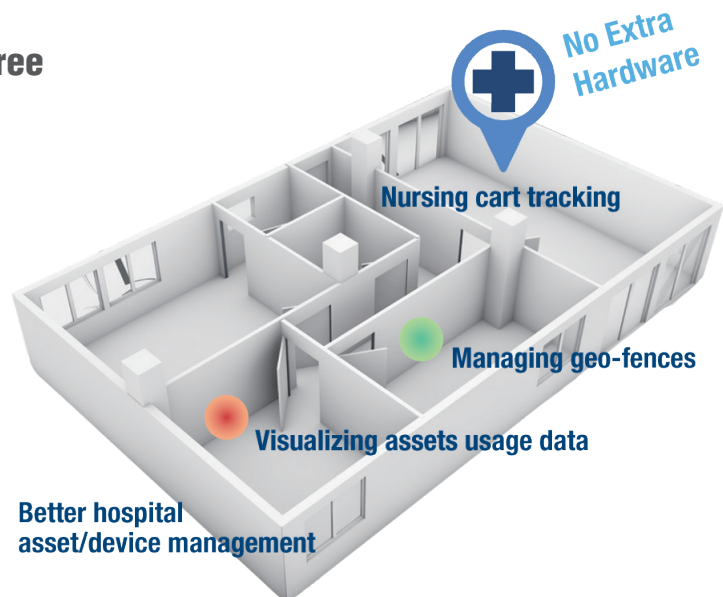
Software Add-ons

Device real-time location software

Wi-Fi RTLS infra-free

Seamlessly connect your edge computing devices into the RTLS system

Advantech Wi-Fi RTLS infra-free software enables immediate location tracking and status monitoring of devices. RTLS contributes to asset management, improves patient care efficiency, and ensures equipment is used sustainably. It also supports compliance with health and safety regulations.



Deploy Faster



Wi-Fi RTLS is a perfect fit for edge computing devices. By embedding the software, devices can seamlessly integrate into the RTLS system.

Order Information

Part Number	Description
31ASRTLSOF01B1	Android
31ASRTLSOF01B2	Windows
31ASRTLSOF01B3	Linux

Supported Models:
POC-4/6/8 series; USM-1/3/5 series ; HIT-3/5 series

Contact us

Email: AIH.service@advantech.com

Click the [link](#) to visit our product page for more details, or scan the QR code.



DeviceOn



Introduction

Advantech DeviceOn is a remote device management platform designed for efficient deployment, monitoring, and maintenance at scale. It reduces on-site workload by offering centralized control over all connected devices.

In addition to core management, DeviceOn includes practical troubleshooting tools such as remote desktop, log access, event tracking, and alert notifications—helping teams quickly resolve issues and minimize downtime. It also supports remote OS updates, ensuring devices stay current and secure.

Built by Advantech's in-house teams and tightly integrated with Advantech hardware, DeviceOn delivers strong compatibility, system reliability, and long-term support through a fully vertically integrated design.

Key Functions

Device Provisioning



Device Onboarding

- Support Windows, Linux, Android
- Quick device enrollment process
- Full User Permission Management



Device Staging

- OS/System Auto Configuration
- Software/peripheral watchlist
- Automatic software provisioning



Device Updating

- Secure file transfer
- Manage and update software
- Android OS upgrades

Device Management



Monitoring & Notifications

- Connection & hardware status
- Software & peripheral status
- Device Abnormal Event Alerts
- Abnormal Event Management



Remote Control & Recovery

- Reboot & Power controls
- Audio & Backlight settings
- Screenshots & Remote Desktop
- Remote SSH (Ubuntu)



Device Security

- Software install/update history
- Device auto lock to protect data
- App install/uninstall policy
- Device usage restriction settings

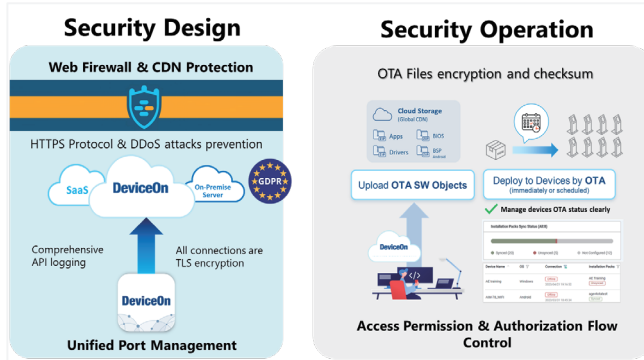
Service & Specifications

Function List

	Windows	Android	Linux(Ubuntu)	Builder	Manager
	10, 11	8+	20.04+	Only available on SaaS	
Profile – OS Settings (KIOSK Mode, others are OS dependent)	✓	✓		✓	✓
Profile – Alarm Rules, Software & Peripheral Monitoring, Task Schedule	✓	✓	✓	✓	✓
Profile – Device Security (Auto Lock, app install policy)		✓		✓	✓
OTA – Update Operating System		✓		✓	✓
OTA – Manage Installation Packs, Remote App Installation, Script Deployment & Execution	✓	✓	✓	✓	✓
OTA – Synchronized File Transfer to Multiple Endpoints	✓		✓	✓	✓
OTA – Remotely Download 3rd-party Application Logs	✓	✓	✓		✓
Monitoring – Hardware Status (CPU/RAM/Storage/Battery)	✓	✓	✓		✓
Monitoring – Software Status (Running Status/CPU & Memory Usage)	✓	✓	✓		✓
Monitoring – Advanced Battery Management [Specific Battery Models]	✓				✓
Monitoring – Peripherals & Display (Connection Status) [USB Only]	✓	✓	✓		✓
Control – Adjust Volume & Backlight, Screenshot, Reboot & Shutdown	✓	✓	✓		✓
Control – Download System Log and Network Information		✓			✓
Control – Remote Desktop	✓	✓	✓		✓
Control – Remote SSH			✓		✓
User Management – Manage User-accessible Feature Permissions	✓	✓	✓	✓	✓
User Management – Manage User Device Management Permissions	✓	✓	✓	✓	✓

DeviceOn

Server Security Enhancements



DeviceOn prioritizes information security. The server incorporates the following features to enhance protection:

- Supports only TLS 1.2 and TLS 1.3 protocols, removing older, insecure versions.
- Utilizes dual-network separation, with all connections centrally managed through a secure proxy server.
- Provides end-to-end encrypted transmission for OTA file transfers, API communications, and remote control operations.
- Records all connection activities for comprehensive analysis and auditing.

Ordering Information

Ordering P/N	Product	Cloud(Server) Type	Description
36CSDOISSASP01	Device Subscription	SaaS Cloud	Annual Cloud Service for 1 device (365 days)
36CSDOISSASP03	Data Traffic	SaaS Cloud	Recharge with around 240GB more data traffic
36CSDOISPSRP01	Device License	On-Premise Server	Perpetual License for 1 device
36CSDOISPSRP02	Server License	On-Premise Server	Server Activation License (valid for 1 server installation - including 2-year software warranty)
36CSDOISPSRP03	Extended Warranty	On-Premise Server	Annual Maintenance & Upgrade Fee (beyond the standard 2-year warranty)